



**PEKATEX®-Substructure**

05 / 2003

**Description and Application of Product**

**PEKATEX®**-Substructure is an integrally tubular grid, built from UP-resin sealed glass fibre strands. It has longitudinal running, parallel stringers. It can be supplied both as hollow shape structure and partially or wholly filled with non-combustible mineral wool. The RE- and REF-Types are especially used as a substructure for facades, walls and ceilings.

**Certificates for PEKATEX® and Facades with PEKATEX® by the German Building Cert. Authority (DIBt)**

**PEKATEX®**-Types: REF 40, REF 60, REF 80, REF 100, REF 120 with the variants -40 and -35 ⇒ DIBt Z - 23.11 - 1049  
**PEKATEX®**-Types: REF 624, REF 826, REF 10208, REF 12210 with the variants -40 und -35 ⇒ DIBt Z - 23.11 - 1050  
 Facade Systems:**PEKATEX®** 49 - 1, 50 - 1 und 50 - 2 (refer to Data Sheet 2) ⇒ DIBt Z - 33.45 - 238  
 Quality Control and Certification carried out by the Governmental Material Authority Northrhine Westfalia (MPA - NRW)

**Technical Data**

PEKATEX®-Substructure Cross Section of Panel		Type (see *)	Panel Measures					Weight approx. [kg / m²]		Thermal Transmission Resistance Coefficient R [m²K / W]		
			Thickness Measures [mm]			Length [cm]	Width [cm]					Size [m²]
			Panel Measures	Venting Duct	Insulating Material							
	RE	30	30	28	---	117.5	64.0	0.750	1.05	---		
	RE	40	44	42	---	117.5	64.0	0.750	1.20	---		
	RE	60	64	62	---	117.5	64.0	0.750	1.45	---		
	RE	80	84	82	---	117.5	64.0	0.750	1.70	---		
	RE	100	104	102	---	117.5	32.0	0.375	2.00	---		
	RE	120	124	122	---	117.5	32.0	0.375	2.30	---		
	RE	30A	30	28	---	117.5	64.0	0.750	1.40	---		
	REF	30 -	30	---	28	117.5	64.0	0.750	2.00	2.85	0.75	0.85
	REF	40 -	44	---	42	117.5	64.0	0.750	2.70	3.45	1.00	1.14
	REF	60 -	64	---	62	117.5	64.0	0.750	3.55	4.60	1.50	1.71
	REF	80 -	84	---	82	117.5	64.0	0.750	4.70	6.20	2.00	2.28
	REF	100 -	104	---	102	117.5	32.0	0.375	5.60	7.40	2.50	2.85
	REF	120 -	124	---	122	117.5	32.0	0.375	6.80	9.05	3.00	3.42
	REF	624 -	64	20	42	117.5	64.0	0.750	3.25	4.00	1.00	1.14
	REF	826 -	84	20	62	117.5	64.0	0.750	4.10	5.15	1.50	1.71
	REF	10208 -	104	20	82	117.5	32.0	0.375	5.30	6.80	2.00	2.28
	REF	12210 -	124	20	102	117.5	32.0	0.375	6.20	8.00	2.50	2.85
* Type-Variants			Mineral wool	Thermal conductivity group 040 ⇒ Type ⇒					-40		-40	
				Thermal conductivity group 035 ⇒ Type ⇒						-35		-35
<b>Storage and Transportation</b>			can infinitely be stored indoors in original packaging; when stored outdoors sufficient covering against weather influences (i.e. rain, snow) must be provided; delivery to building-site on request.									

**Features**

- is highly load-bearing and offers reinforcing capabilities  
(partition distance between stringers of RE- und REF-Types ⇒ 64 mm)
- consists of a mesh grid and is permeable for any substances  
(open mesh span of 4 mm x 4 mm)
- is resistant to corrosive substances and does not rot
- acts as a buffer and is shock absorbing
- acts as thermal- and sound insulation
- is non-combustible within the facade system  
(according to German Industrial Standard ⇒ Construction Material Class DIN 4102 - A2)